



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

TIDEWATER REGIONAL OFFICE

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Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1, of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	Perdue Farms Incorporated
Facility Name:	Perdue Farms Incorporated
Facility Location:	22520 Lankford Highway Accomac, Virginia 23301
Registration Number:	40483
Permit Number:	TRO-40483

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act (Sections I through X)

State Only Enforceable Requirements (Section XI)

Effective Date

February 20, 2016

Expiration Date

Regional Director

Signature Date

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I. Facility Information

Permittee

Perdue Farms Incorporated
22520 Lankford Highway
Accomac, Virginia 23301

Responsible Official

Joseph R. Campbell
Director of Operations

K. Wayne Stewart
Rendering Plant Manager

Facility

Perdue Farms Incorporated
22520 Lankford Highway
Accomac, Virginia 23301

Contact Persons

Randy Rhoades
Wastewater Manager, Accomac Complex
(757) 787-5289

Bruce Roberts
Environmental Manager, Accomac Complex
(540) 296-0925

County-Plant Identification Number: 51-001-00010

Facility Description:

NAICS 311615 – Poultry slaughtering and processing
NAICS 311613 – Rendering and meat byproduct processing

Facility processes live poultry into fresh poultry food products. Remaining by-products are converted by two processes. Meat and viscera by-products (offal) are converted to meat meal and fat, and feathers and blood are converted to high protein feather meal.

The processes have several boilers, an ammonia refrigeration system, and a wastewater treatment plant. House air odor is controlled by packed tower scrubbers while high intensity odor from processes is controlled by a DFS system that includes a venturi scrubber, a spray condenser, and a packed tower scrubber. The wastewater treatment plant has a lime silo with fabric filter.

II. Emission Units

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/ Rated Capacity*	Pollution Control Device Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Poultry Processing Plant (27,000 birds/hr maximum rated capacity)							
ES1	EP1	Cleaver Brooks Boiler CB600, #6 fuel oil-fired, manufactured before 1971 (MACT JJJJJ)	29 million Btu/hr	-	-	-	-
ES2	EP2	Cleaver Brooks Boiler CB600, #6 fuel oil-fired, manufactured before 1971 (MACT JJJJJ)	29 million Btu/hr	-	-	-	-
ES5	EP5	Ammonia Refrigeration System, compressor room air exhaust	-	-	-	-	-
Wastewater Treatment Plant							
ES6	EP6	Bulk storage silo for dry lime	150 lbs/hr	Fabric Filter, C.P. Environmental-99-M57-405	CD6	PM	-
By-Product Protein Conversion Plant (67.5 tons/hr maximum rated capacity)							
TB1	TP1	Temporary rental boiler, #2 fuel oil-fired, manufactured by Nebraska in 2001 (NSPS Subpart Dc and MACT JJJJJ)	90 million Btu/hr	-	-	-	9/09/2011 NSR
ES7	EP7	Cleaver Brooks Boiler DL-68, #6 fuel oil-fired, manufactured before 1974 (MACT JJJJJ)	65 million Btu/hr	-	-	-	08/03/2007 NSR
ES9	EP9	Cleaver Brooks Boiler CB 800, #2 fuel oil/poultry fat-fired, manufactured in 1997 (NSPS Subpart Dc and MACT JJJJJ)	33.7 million Btu/hr	-	-	-	08/03/2007 NSR

Emission Unit ID	Stack ID	Emission Unit Description	Size/ Rated Capacity*	Pollution Control Device Description	PCD ID	Pollutant Controlled	Applicable Permit Date
ES10	EP10	Cleaver Brooks Boiler CB 800, #2 fuel oil/poultry fat-fired, manufactured in 1997 (NSPS Subpart Dc and MACT JJJJJ)	33.7 million Btu/hr	-	-	-	08/03/2007 NSR
ES8	EP8	Cleaver Brooks Boiler CB 750, #2 fuel oil/poultry fat-fired, manufactured in 1981 (MACT JJJJJ)	31.6 million Btu/hr	-	-	-	08/03/2007 NSR
ES11A	EP11 A	Protein Conversion Plant – House air	-	Packed tower scrubber, Millpoint	CD11 A	Odor	08/03/2007 NSR and 01/23/2006 SOP
ES11B	EP11 B	Protein Conversion Plant – House air	-	Packed tower scrubber, Millpoint	CD11B	Odor	08/03/2007 NSR and 01/23/2006 SOP
ES12	EP12	Protein Conversion Plant – Production equipment with high intensity odor: Feather Hydrolyzer Feather Hydrolyzer Feather Hydrolyzer Feather Dryer Evaporators (Cookers) Expellers/Presses	 30,000 lbs/hr raw feathers 20,000 lbs/hr raw feathers 10,000 lbs/hr raw feathers 30,000 lbs/hr feathers 97,000 lbs/hr (combined) 97,000 lbs/hr (combined)	Millpoint, DFS-24 system: venturi, spray condenser, and packed tower scrubber in series - - - - -	CD12 - - - -	Odor	08/03/2007 NSR and 01/23/2006 SOP
General							
ES13	EP13	Diesel Emergency Generator, 2005	2,593 hp; 1,825 kW	-	-	-	08/03/2007 NSR

*The Size/Rated capacity is provided for informational purposes only, and is not an applicable requirement.

III. Poultry Processing Plant Boiler Requirements (Existing Sources) – Emission Units ES1 and ES2

A. Limitations

1. **Emission Limit-** Particulate Matter (PM) emissions from Units ES1 and ES2, each, shall not exceed the following limits:

PM 7.8 lbs/hr

The maximum allowable particulate emissions for each fuel burning equipment unit shall be the product of the rated capacity and the emission ratio. The maximum allowable emission ratio, E, in pounds of particulate per million Btu input, shall be determined by the following equation: $E = 1.0906H^{-0.2594}$, where H is the total capacity in millions of Btu per hour.

(9 VAC 5-40-900 and 9 VAC 5-80-110)

2. **Emission Limit-** Sulfur Dioxide (SO₂) emissions from Units ES1 and ES2, each, shall not exceed the following limits:

SO₂ 76.6 lbs/hr

The emission rate in lbs/hr shall be determined by the following equation: $S = 2.64 K$, where S = allowable emission of sulfur dioxide expressed in pounds per hour, and K = heat input at total capacity expressed in million Btu per hour.

(9 VAC 5-40-930 A and 9 VAC 5-80-110)

3. **Visible Emission Limits-** Visible emissions from each of the boilers ES1 and ES2 shall not exceed twenty percent (20%) opacity, except for one six-minute period in any one hour of not more than sixty percent (60%) opacity. Failure to meet the requirements of this condition because of the presence of water vapor shall not be a violation of this condition.

(9 VAC 5-40-80 and 9 VAC 5-80-110)

4. **Operating Standards-** At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions.

(9 VAC 5-40-20 E and 9 VAC 5-80-110)

5. **Fuel-** The approved fuel for the boilers (emission units ES1 and ES2) is No. 6 fuel oil.

(9 VAC 5-80-110)

B. Monitoring

1. **Visible Emissions Observations** - The permittee shall check each boiler (Units ES1 and ES2) stack at least once each calendar week during daylight hours of operations for visible emissions for at least six minutes. If visible emissions are noted from any of the stacks, maintenance shall be performed on the boiler(s) to eliminate the visible emissions. If visible emissions continue after maintenance actions, a visible emissions evaluation (VEE) shall be immediately conducted on each stack for at least six minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for either stack exceeds ten (10) percent, the VEE shall continue for one hour from initiation on each stack. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the boiler back to compliance. Results of observations and/or VEEs shall be recorded in the operation log. Records of observations shall include the following:
 - a. The name of the observer,
 - b. Date and time of the observation,
 - c. An indication of presence or absence of visible emissions,
 - d. Whether the emissions are representative of normal operation,
 - e. If emissions are not representative of normal operation, the cause of the abnormal emissions,
 - f. The duration of any visible emission incident, and any corrective action to eliminate visible emissions.
 - g. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).(9 VAC 5-80-110)

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

D. Recordkeeping

1. **On-Site Records**- The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Types of fuel combusted in the boilers (emission units ES1 and ES2);
 - b. Annual throughput of each fuel type combusted in each boiler (emission units ES1 and ES2), calculated monthly as the sum of each consecutive 12-month period;
 - c. Certification from the fuel supplier with each shipment of oil, identifying the sulfur content of the fuel;
 - d. The DEQ-approved, pollutant-specific emission factors and equations used to determine compliance with the emission limits; and,
 - e. Records of visible emission observations, any corrective action taken, and any visible emissions evaluations (EPA Method 9) conducted.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-40-50 and 9 VAC 5-80-110)

IV. Emergency Generator and Protein Conversion Plant Boiler Requirements – Emission Units ES7, ES8, ES9, ES10, and ES13

A. Limitations

1. **Operating Hours** - The emergency generator (Unit ES13) shall meet the definition of an emergency stationary RICE as defined in 40 CFR 63.6675 and the operating hour limitations in 40 CFR 63.6640(f)(1)(i) to (iii). At the same time, it shall not operate more than 407 equivalent full load (prime power) operating hours per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110, Condition 3 of 08/03/2007 NSR permit, and 40 CFR 63 Subpart ZZZZ)
2. **Fuel** -
The approved fuels for the 31.6 million Btu/hr boiler (Unit ES8) and the two 33.7 million Btu/hr boilers (Units ES9 and ES10) are distillate oil and poultry fat.

The approved fuel for the 65 million Btu/hr boiler (Unit ES7) is residual oil.

The approved fuel for the emergency generator (Unit ES13) is off-road diesel fuel.

A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 4 of 08/03/2007 NSR permit)
3. **Fuel Throughput** - The 65 million Btu/hr boiler (Unit ES7) shall consume no more than 1,379,436 gallons of residual oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 5 of 08/03/2007 NSR permit)
4. **Fuel** - The distillate oil, residual oil, diesel fuel, and poultry fat shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specifications for numbers 1 or 2 fuel oil
Maximum sulfur content per shipment: 0.5%

RESIDUAL OIL which meets the ASTM D396 specifications for numbers 4, 5, or 6 fuel oil
Maximum sulfur content per shipment: 0.5 %

DIESEL FUEL which meets ASTM specifications for numbers 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.05%

POULTRY FAT which is an oil produced as a by-product of poultry processing

(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 6 of 08/03/2007 NSR permit)
5. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil, residual oil, and diesel fuel. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;
 - b. The date on which the oil/fuel was received;
 - c. The quantity of each type of oil/fuel delivered in the shipment;

- d. A statement that the distillate oil and diesel fuel comply with the American Society for Testing and Materials specification for numbers 1 or 2 fuel oil;
- e. A statement that the residual oil complies with the American Society for Testing and Materials specification for number 4, 5, or 6 fuel oil; and,
- f. The sulfur content of the residual oil and diesel fuel.
- g. Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in **Condition IV.A.4**. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 7 of 8/03/2007 NSR permit)

6. **Fuel Sampling and Analysis** - The permittee shall sample the poultry fat storage tank, from which poultry fat is used for boiler fuel, at least once per calendar month when poultry fat is used for boiler fuel. The sample shall be collected and analyzed, using EPA approved methods, to determine a Btu value and sulfur content of the poultry fat.

(9 VAC 5-80-110 and Condition 8 of 8/03/2007 NSR permit)

7. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the boilers ES9 and ES10 shall be operated in compliance with the requirements of 40 CFR 60 Subpart Dc. Note: All applicable requirements of 40 CFR 60 Subpart Dc may not be specifically listed in this permit. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110, 9 VAC 5-50-400, and Condition 9 of 8/03/2007 NSR permit)

8. **Emission Limits** - Emissions from the operation of each 33.7 million Btu/hr boiler (Units ES9 and ES10) shall not exceed the limits specified below:

Particulate Matter	2.6 lbs/hr
Sulfur Dioxide	17.0 lbs/hr
Nitrogen Oxides (as NO ₂)	5.5 lbs/hr
Carbon Monoxide	1.2 lbs/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits shall be determined as stated in Condition numbers **IV.A.2, 4, 5, 6, 13, and IV.D.1**.

(9 VAC 5-80-110 and Condition 10 of 8/03/2007 NSR permit)

9. **Emission Limits** - Emissions from the operation of the 31.6 million Btu/hr boiler (Unit ES8) shall not exceed the limits specified below:

Particulate Matter	2.4 lbs/hr
Sulfur Dioxide	15.9 lbs/hr
Nitrogen Oxides (as NO ₂)	5.2 lbs/hr
Carbon Monoxide	1.1 lbs/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits shall be determined as stated in Condition numbers **IV.A.2, 4, 5, 6, 14, and IV.D.1**.

(9 VAC 5-80-110 and Condition 11 of 8/03/2007 NSR permit)

10. **Emission Limits** - Emissions from the operation of the 65 million Btu/hr boiler (Unit ES7) shall not exceed the limits specified below:

Particulate Matter	5.6 lbs/hr	8.9 tons/yr
PM10	4.8 lbs/hr	7.6 tons/yr
Sulfur Dioxide	34.0 lbs/hr	54.1 tons/yr
Nitrogen Oxides (as NO ₂)	23.8 lbs/hr	37.9 tons/yr
Carbon Monoxide	2.2 lbs/hr	3.4 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits shall be determined as stated in Condition numbers **IV.A.2, 3, 4, 5, 15, and IV.D.1.**

(9 VAC 5-80-110 and Condition 12 of 8/03/2007 NSR permit)

11. **Emission Limits** - Emissions from the operation of the emergency generator (Unit ES13) shall not exceed the limits specified below:

Particulate Matter	0.48 lbs/hr
Sulfur Dioxide	0.86 lbs/hr
Nitrogen Oxides (as NO ₂)	52.90 lbs/hr
Carbon Monoxide	0.97 lbs/hr
Volatile Organic Compounds	0.97 lbs/hr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits shall be determined as stated in Condition numbers **IV.A.1, 2, 4, 5, 16, and IV.D.1.**

(9 VAC 5-80-110 and Condition 13 of 8/03/2007 NSR permit)

12. **Emission Limits** - Total emissions from the operation of all by-product protein conversion plant boilers (Units ES7, ES8, ES9, and ES10) and the generator (Unit ES13) shall not exceed the limits specified below:

Particulate Matter	21.5 tons/yr
PM-10	16.6 tons/yr
Sulfur Dioxide	204.8 tons/yr
Nitrogen Oxides (as NO ₂)	106.3 tons/yr
Carbon Monoxide	17.8 tons/yr
Volatile Organic Compounds	0.8 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits shall be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits shall be determined as stated in Condition numbers **IV.A.1-6, A.13-16, and IV.D.1.**

(9 VAC 5-80-110 and Condition 14 of 8/03/2007 NSR permit)

13. **Visible Emission Limit** - Visible emissions from each of the two 33.7 million Btu/hr distillate oil/poultry fat-fired boiler stacks (Units ES9 and ES10) shall not exceed ten percent (10%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty percent (20%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 15 of 8/03/2007 NSR permit)
14. **Visible Emission Limit** - Visible emissions from the 31.6 million Btu/hr distillate oil/poultry fat-fired boiler stack (Unit ES8) shall not exceed ten percent (10%) opacity during one six-minute period in any one hour in which visible emissions shall not exceed twenty percent (20%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 16 of 8/03/2007 NSR permit)
15. **Visible Emission Limit** - Visible emissions from the 65 million Btu/hr residual oil-fired boiler stack (Unit ES7) shall not exceed twenty percent (20%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed thirty percent (30%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 17 of 8/03/2007 NSR permit)
16. **Visible Emission Limit** - Visible emissions from the emergency generator stack (Unit ES13) shall not exceed five percent (5%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty percent (20%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.
(9 VAC 5-80-110 and Condition 18 of 8/03/2007 NSR permit)
17. **Operation and Maintenance Practice for Emergency Generator**- The permittee shall meet the following requirements for Unit ES13 as required by 40 CFR 63.6603(a) and Table 2d in 40 CFR 63 Subpart ZZZZ :
 - a. Change oil and filter every 500 hours of operation or annually, whichever comes first;
 - b. Inspect air cleaner every 1,000 hours of operation or annually, whichever comes first; and
 - c. Inspect all hoses and belts every 500 hours of operation or annually, whichever comes first, and replace as necessary.

The permittee has the option of utilizing an oil analysis program in order to extend the specified oil change requirement in accordance with 40 CFR 63.6625(i).

The permittee must operate and maintain Unit ES13 according to the manufacturer's emission-related written instructions or develop your own maintenance plan which must provide to the extent practicable for the maintenance and operation of the engine in a manner consistent with good air pollution control practice for minimizing emissions (40 CFR 63.6625(e)).

The permittee must minimize the engine's time spent at idle during startup and minimize the engine's startup time to a period needed for appropriate and safe loading of the engine, not to exceed 30 minutes (40 CFR 63.6625(h)).

(9 VAC 5-80-110 and 40 CFR 63 Subpart ZZZZ)

18. **Maintenance/ Operating Procedures** - At all times, including periods of startup, shutdown, soot blowing, and malfunction, the permittee shall, to the extent practicable, maintain and operate any affected facility in a manner consistent with air pollution control practices for minimizing emissions. The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with the written operating procedures. The permittee shall maintain records of the training provided including the names of trainees, the date of training, and the nature of the training.

(9 VAC 5-80-110, and Conditions 19 and 26 of 8/03/2007 NSR permit)

19. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the emergency generator (Unit ES13) shall be operated in compliance with the requirements of 40 CFR 63 Subpart ZZZZ.

Note: All applicable requirements of 40 CFR 63 Subpart ZZZZ may not be specifically listed in this permit. The permittee should refer to the most recent version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110 and 40 CFR 63 Subpart ZZZZ)

20. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary, to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-80-110 and Condition 29 of 8/03/2007 NSR permit)

B. Monitoring

1. **Monitoring Device Requirement for Emergency Generator**- The permittee must install a non-resettable hour meter if one is not already installed (40 CFR 63.6625(f)).
(9 VAC 5-80-110 and 40 CFR 63 Subpart ZZZZ)
2. **Visible Emissions Observations** - The permittee shall check each boiler (Units ES7, ES8, ES9, and ES10) stack at least once each calendar week during daylight hours of operations for visible emissions for at least six minutes. If visible emissions are noted from any of the stacks, maintenance shall be performed on the boiler(s) to eliminate the visible emissions. If visible emissions continue after maintenance actions, a visible emissions evaluation (VEE) shall be immediately conducted on each stack for at least six minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for either stack exceeds ten (10) percent, the VEE shall continue for one hour from initiation on each stack. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the boiler back to compliance. Results of observations and/or VEEs shall be recorded in the operation log. Records of observations shall include the following:
 - a. The name of the observer,
 - b. Date and time of the observation,
 - c. An indication of presence or absence of visible emissions,
 - d. Whether the emissions are representative of normal operation,
 - e. If emissions are not representative of normal operation, the cause of the abnormal emissions,
 - f. The duration of any visible emission incident, and any corrective action to eliminate visible emissions.
 - g. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).

(9 VAC 5-80-110)

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. **Stack Tests** - Upon request by the DEQ, the permittee shall conduct additional performance tests for criteria pollutants from each boiler stack to demonstrate compliance with the emission limits contained in Section IV.A of this permit. The details of these tests shall be arranged with the Tidewater Regional Office.
(9 VAC 5-80-110 and Condition 20 of 8/03/2007 NSR permit)
3. **Visible Emissions Evaluations** - Upon request by the DEQ, the permittee shall conduct additional visible emissions evaluations from each boiler or generator stack to demonstrate compliance with the visible emission limits contained in this permit. The details of the tests shall be arranged with the Tidewater Regional Office.
(9 VAC 5-80-110 and Condition 21 of 8/03/2007 NSR permit)

D. Recordkeeping and Reporting

1. **On-Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Monthly emission calculations for the protein conversion plant for all pollutants listed in Condition IV.A.12. The annual emissions shall be calculated as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months. The permittee shall maintain and utilize DEQ-approved, pollutant specific emission factors on site for the calculation of these emissions.
 - b. Annual throughput of residual fuel oil for the 65 million Btu/hr boiler, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - c. All fuel supplier certifications, as required by Condition IV.A.5.
 - d. Poultry fat product sample collection and analyses, as required by Condition IV.A.6.
 - e. Annual hours of operation for the emergency generator (Unit ES13), as required by Condition IV.A.1.
 - f. Records of operation and maintenance practice for the emergency generator as required by Condition IV.A.17.
 - g. Scheduled and unscheduled maintenance, and operator training as required by Condition IV.A.18.
 - h. Written operating procedures for the boilers and the emergency generator, and a maintenance schedule as required by Condition IV.A.17 and 18.
 - i. Records of all visible emission observations, any corrective action taken, and any visible emissions evaluations (EPA Method 9) conducted.

These records shall be available onsite for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 22 of 8/03/2007 NSR permit)

2. **Semi-Annual Reports** - The permittee shall submit fuel quality reports for the distillate fuel used for the two 33.7 million Btu/hr boilers (Units ES9 and ES10) to the Tidewater Regional Office within 30 days after the end of each semi-annual period. If no shipments of distillate oil were received during the semi-annual period, the semi-annual report shall consist of the dates included in the semi-annual period and a statement that no oil was received during the semi-annual period. If distillate oil was received during the semi-annual period, the reports shall include:
 - a. Dates included in the semi-annual period;
 - b. A copy of all fuel supplier certifications for all shipments of distillate oil (burned in the 33.7 million Btu/hr boilers) received during the semi-annual period or a semi-annual summary from each fuel supplier that includes the information specified in Condition IV.A.5 for each shipment of distillate oil; and,
 - c. A signed statement from the owner or operator of the facility that the fuel supplier certifications or summaries of fuel supplier certifications represent all of the distillate oil burned or received at the facility for use in the two 33.7 million Btu/hr boilers(9 VAC 5-80-110, 9 VAC 5-50-410, and Condition 23 of 8/03/2007 NSR permit)

V. Rental Boiler Requirements- Emission Unit TB1

A. Limitations

1. **Emission Controls** - NO_x emissions from the rental boiler (TB1) shall be controlled by low NO_x burners. The low NO_x burners shall be installed and operated in accordance with manufacturer's specifications.
(9 VAC 5-80-110 and Condition 3 of 9/09/2011 NSR permit)
2. **Fuel** - The approved fuel for the rental boiler (TB1) is distillate oil. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110 and Condition 4 of 9/09/2011 NSR permit)
3. **Fuel Throughput Limit** - The rental boiler (TB1) shall consume no more than 2,775,000 gallons of distillate oil per year, calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
(9 VAC 5-80-110 and Condition 5 of 9/09/2011 NSR permit)
4. **Fuel Specifications** - The distillate oil shall meet the specifications below:

DISTILLATE OIL which meets the ASTM D396 specification for Grades 1 or 2 fuel oil:
Maximum sulfur content per shipment: 0.2%
(9 VAC 5-80-110 and Condition 6 of 9/09/2011 NSR permit)
5. **Fuel Certification** - The permittee shall obtain a certification from the fuel supplier with each shipment of distillate oil. Each fuel supplier certification shall include the following:
 - a. The name of the fuel supplier;
 - b. The date on which the distillate oil was received;
 - c. The quantity of distillate oil delivered in the shipment;
 - d. A statement that the distillate oil complies with the American Society for Testing and Materials specifications ASTM D396 for Grades 1 or 2 fuel oil as incorporated by reference at 40 CFR 60.17; and
 - e. The sulfur content of the distillate oil.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ may be used to determine compliance with the fuel specifications stipulated in Condition number **V.A.4**. Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits.

(9 VAC 5-80-110 and Condition 7 of 9/09/2011 NSR permit)

6. **Consecutive Days On-site Limit for Rental Boiler-** The rental boiler (TB1) may not remain on-site for more than 365 consecutive days from the start-up date unless an extension is granted by DEQ.

(9 VAC 5-80-110 and Condition 8 of 9/09/2011 NSR permit)

7. **Operating Restrictions-** The rental boiler (TB-1) shall not be operating on-site at the same time with the rendering plant boiler ES7 except during a transition period up to 48 hours when one of the boilers is being brought on line and the other is being taken off line.

(9 VAC 5-80-110 and Condition 9 of 9/09/2011 NSR permit)

8. **Emission Limits** - Emissions from the operation of the rental boiler (TB1) shall not exceed the limits specified below:

Particulate Matter (PM)	1.3 lbs/hr	2.8 tons/yr
(filterable PM)		
PM-10	0.7 lbs/hr	1.4 tons/yr
Sulfur Dioxide	18.5 lbs/hr	39.4 tons/yr
Nitrogen Oxides	13.0 lbs/hr	27.8 tons/yr
(as NO ₂)		
Carbon Monoxide	3.3 lbs/hr	6.9 tons/yr

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits may be determined as stated in Condition numbers **V.A.1- 5, 9 and V.D.1**.

(9 VAC 5-80-110 and Condition 10 of 9/09/2011 NSR permit)

9. **Visible Emission Limit** - Visible emissions from the rental boiler (TB1) shall not exceed ten percent (10%) opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty percent (20%) opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during startup, shutdown, and malfunction.

(9 VAC 5-80-110 and Condition 11 of 9/09/2011 NSR permit)

10. **Requirements by Reference (NSPS)-** Except where this permit is more restrictive than the applicable requirement, rental boiler TB1 shall be operated in compliance with the requirements of 40 CFR 60, Subpart Dc.

Note: All applicable requirements of 40 CFR 60 Subpart Dc may not be specifically listed in this permit. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110 and Condition 12 of 9/09/2011 NSR permit)

11. **Permit Invalidation** - This permit to install the rental boiler TB1 shall become invalid, unless an extension is granted by the DEQ, if the installation of the rental boiler is not commenced within the latest of the following:
- 18 months from the date of issuance of the minor NSR permit (9/09/2011);
 - Nine months from the date that the last permit or other authorization was issued from any other governmental entity; and
 - Nine months from the date of the last resolution of any litigation concerning any such permits or authorization

(9 VAC 5-80-110 and Condition 18 of 9/09/2011 NSR permit)

12. **Violation of Ambient Air Quality Standard** - The permittee shall, upon request of the DEQ, reduce the level of operation or shut down a facility, as necessary to avoid violating any primary ambient air quality standard and shall not return to normal operation until such time as the ambient air quality standard will not be violated.

(9 VAC 5-80-110 and Condition 24 of 9/09/2011 NSR permit)

B. Testing

1. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)
2. **Initial Compliance Determination- Visible Emission Evaluation-** Visible Emission Evaluations (VEE) in accordance with 40 CFR Part 60, Appendix A, Method 9, shall be conducted by the permittee on the rental boiler stack (TP1). The test shall consist of 30 sets of 24 consecutive observations (at 15 second intervals) to yield six-minute averages. The permittee shall submit a test protocol to the Director, Tidewater Regional Office at least 30 days prior to testing. The evaluation shall be performed, reported and demonstrate compliance within 60 days after achieving the maximum production rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility.

One copy of the test result shall be submitted to the Tidewater Regional Office within 45 days after test completion and shall conform to the test report format enclosed with this permit

(9 VAC 5-80-110 and Condition 13 of 9/09/11 NSR Permit)

C. Monitoring

1. **Continuing Compliance Determination- Visible Emission Observation-** The permittee shall observe the rental boiler stack (TP1) at least once per week (Monday-Sunday) during daylight hours of operations for visible emissions for at least six minutes. If visible emissions are noted from the stack, operational adjustment or maintenance shall be performed on the boiler to eliminate the visible emissions. If visible emissions continue after maintenance actions, a visible emissions evaluation (VEE) shall be immediately conducted on the stack for at least six minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for the stack exceeds ten percent (10%), the VEE shall continue for one hour from initiation to determine compliance with the opacity limit. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the boiler back to compliance. Results of observations and/or VEEs shall be recorded in the operation log. Records of observations shall include the following:
 - The name of the observer,
 - Date and time of the observation,
 - An indication of presence or absence of visible emissions,
 - Whether the emissions are representative of normal operation,

- e. If emissions are not representative of normal operation, the cause of the abnormal emissions,
 - f. The duration of any visible emission incident, and any corrective action to eliminate visible emissions,
 - g. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).
- (9 VAC 5-80-110 and Condition 14 of 9/09/11 NSR Permit)

D. Recordkeeping

1. **On Site Records-** The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Monthly and annual throughput of distillate oil for the rental boiler (TB1) in gallons. Annual throughput shall be calculated monthly as the sum of each consecutive 12-month period. Compliance for the consecutive 12-month period shall be demonstrated monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding 11 months.
 - b. All fuel supplier certifications.
 - c. All visible emission evaluations (VEE) in accordance with EPA Method 9 (reference 40 CFR 60, Appendix A), and all visible emission observations.
 - d. All semi-annual fuel quality reports.
 - e. All notifications.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and Condition 15 of 9/09/11 NSR Permit)

E. Notification and Reporting

1. **Initial Notifications (NSPS Subpart Dc)** - The permittee shall furnish written notification to the Tidewater Regional Office of:
 - a. The actual date on which installation of the rental boiler commenced within 30 days after such date.
 - b. The actual start-up date of the rental boiler within 15 days after such date.
 - c. The anticipated date of performance tests of the rental boiler postmarked at least 30 days prior to such date.

Copies of the written notifications referenced in items a through c above shall be submitted to:

Associate Director
Office of Air Enforcement and Compliance Assistance (3AP20)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103-2029

(9 VAC 5-80-110 and Condition 17 of 9/09/11 NSR Permit)

2. **Semi-annual Fuel Quality Reports-** For the rental boiler subject to NSPS Subpart Dc, the permittee shall submit fuel quality reports to the Director, Tidewater Regional Office, postmarked no later than the 30th day following the end of each semi-annual period ending June 30th and December 31st. If no shipments of distillate oil were received during the semiannual period, the fuel quality report shall consist of the dates

included in the semi-annual period and a statement that no distillate oil was received during the semi-annual period. If distillate oil was received during the reporting period, the report shall include:

- a. The dates included in the semi-annual period,
- b. A copy of all fuel supplier certifications for all shipments of distillate oil received during the reporting period, indicating the supplier, volume of shipment, sulfur content (weight percent), and date the shipment was received, and
- c. A signed statement from the owner or operator of the facility that the fuel supplier certifications represent all of the distillate oil received during the reporting period.

One copy of the semi-annual fuel report shall be sent to the address in Condition **V.E.1.**
(9 VAC 5-80-110 and Condition 16 of 9/09/11 NSR Permit)

VI. MACT Subpart JJJJJ Requirements on Boilers (Emission Units ES1, ES2, ES7, ES8, ES9, ES10, and TB1)

A. Limitations

1. **Requirements by Reference (MACT)**- Except where this permit is more restrictive than the applicable requirement, boilers ES1, ES2, ES7, ES8, ES9, ES10, and TB1 shall be operated in compliance with the requirements of 40 CFR 63 Subpart JJJJJ.

Note: All applicable requirements of 40 CFR 63 Subpart JJJJJ may not be specifically listed in this permit. The permittee should refer to the most current version of the applicable regulation for additional or revised requirements not included in this permit.

(9 VAC 5-80-110 and 40 CFR 63 Subpart JJJJJ)

B. Testing

1. **Initial Compliance Demonstration- Boiler Biennial Tune-Up**- The initial biennial tune-up of each of the boilers (ES1, ES2, ES7, ES8, ES9, ES10, and TB1) shall be conducted no later than March 21, 2012, using the procedure in 40 CFR 63.11223(b) as described below:
 - a. As applicable, inspect the burner, and clean or replace any components of the burner as necessary (you may delay the burner inspection until the next scheduled unit shutdown, but you must inspect each burner at least once every 36 months).
 - b. Inspect the flame pattern, as applicable, and adjust the burner as necessary to optimize the flame pattern. The adjustment should be consistent with the manufacturer's specifications, if available.
 - c. Inspect the system controlling the air-to-fuel ratio, as applicable, and ensure that it is correctly calibrated and functioning properly.
 - d. Optimize total emissions of carbon monoxide. This optimization should be consistent with the manufacturer's specifications, if available.
 - e. Measure the concentrations in the effluent stream of carbon monoxide in parts per million, by volume, and oxygen in volume percent, before and after the adjustments are made (measurements may be either on a dry or wet basis, as long as it is the same basis before and after the adjustments are made).
 - f. Maintain onsite and submit, if requested by DEQ or EPA Region III, biennial report containing the following information:
 - (i) The concentrations of CO in the effluent stream in parts per million, by volume, and oxygen in volume percent, measured before and after the tune-up of the boiler.

- (ii) A description of any corrective actions taken as a part of the tune-up of the boiler.
- (iii) The type and amount of fuel used over the 12 months prior to the biennial tune-up of the boiler.
- g. If the unit is not operating on the required date for a tune-up, the tune-up must be conducted within one week of startup.

The permittee shall submit a signed statement in the Notification of Compliance Status report (see Condition VI.E.2) that indicates that a tune-up of the boiler has been conducted.
(9 VAC 5-80-110, 40 CFR 63.11196(a)(1) and 40 CFR 63.11214(b))

2. **Initial Compliance Demonstration- Boiler One-Time Energy Assessment-** The permittee shall have a one-time energy assessment of each of the boilers (ES1, ES2, ES7, ES8, ES9, ES10, and TB1) performed by a qualified energy assessor no later than March 21, 2014. An energy assessment completed on or after January 1, 2008, that meets or is amended to meet the energy assessment requirements below satisfies the energy assessment requirement.
- a. The energy assessment (Table 2 of 40 CFR 63 Subpart JJJJJ) must include:
 - (i) A visual inspection of the boiler system,
 - (ii) An evaluation of operating characteristics of the facility, specifications of energy using systems, operating and maintenance procedures, and unusual operating constraints,
 - (iii) Inventory of major systems consuming energy from the affected boiler,
 - (iv) A review of available architectural and engineering plans, facility operation and maintenance procedures and logs, and fuel usage,
 - (v) A list of major energy conservation measures,
 - (vi) A list of the energy savings potential of the energy conservation measures identified,
 - (vii) A comprehensive report detailing the ways to improve efficiency, the cost of specific improvements, benefits, and the time frame for recouping those investments.
 - b. A qualified energy assessor (40 CFR 63.11237) means:
 - (i) someone who has demonstrated capabilities to evaluate a set of the typical energy savings opportunities available in opportunity areas for steam generation and major energy using systems, including, but not limited to:
 - (a) Boiler combustion management.
 - (b) Boiler thermal energy recovery, including
 - Conventional feed water economizer,
 - Conventional combustion air preheater, and
 - Condensing economizer.
 - (c) Boiler blowdown thermal energy recovery.
 - (d) Primary energy resource selection, including
 - Fuel (primary energy source) switching, and
 - Applied steam energy versus direct-fired energy versus electricity.
 - (e) Insulation issues.
 - (f) Steam trap and steam leak management.
 - (g) Condensate recovery.

- (h) Steam end-use management.
- (ii) Capabilities and knowledge includes, but is not limited to:
 - (a) Background, experience, and recognized abilities to perform the assessment activities, data analysis, and report preparation.
 - (b) Familiarity with operating and maintenance practices for steam or process heating systems.
 - (c) Additional potential steam system improvement opportunities including improving steam turbine operations and reducing steam demand.
 - (d) Additional process heating system opportunities including effective utilization of waste heat and use of proper process heating methods.
 - (e) Boiler-steam turbine cogeneration systems.
 - (f) Industry specific steam end-use systems.

The permittee shall submit a signed certification in the Notification of Compliance Status report (see Condition VI.E.2) that an energy assessment of the boiler and its energy use systems has been completed and submit, upon request, the energy assessment report.

(9 VAC 5-80-110, 40 CFR 63.11196(a)(3) and 40 CFR 63.11214(c))

C. Monitoring

1. **Continuing Compliance Demonstration- Boiler Biennial Tune-Up-** The permittee must conduct a biennial performance tune-up of each of the boilers (ES1, ES2, ES7, ES8, ES9, ES10, and TB1) using the procedure in 40 CFR 63.11223(b) as described in Condition VI.B.1 and keep records as required in 40 CFR 63.11225(c) to demonstrate continuous compliance. Each biennial tune-up must be conducted no more than 25 months after the previous tune-up.
(9 VAC 5-80-110 and 40 CFR 63.11223(a))

D. Recordkeeping

1. **On Site Records-** The permittee shall maintain records to demonstrate compliance with 40 CFR 63 Subpart JJJJJJ. The content and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. A copy of Initial Notifications and Notifications of Compliance Status for the boilers (ES1, ES2, ES7, ES8, ES9, ES10, and TB1), and all supporting documentation.
 - b. Records to document conformance with the required work practices, emission reduction measures, and management practices in accordance with 40 CFR 63.11225(c)(2), including, but not limited to:
 - (i) Tune-up records for each boiler: Identification of the boiler, date of tune-up, procedures used for tune-up, and the manufacturer's specifications for which the boiler was tuned, and
 - (ii) Monthly fuel usage including fuel type and amount for each boiler.
 - c. Biennial compliance certification reports.
 - d. Records of the occurrence and duration of each malfunction of the boiler(s).
 - e. Records of corrective actions taken during periods of malfunction to minimize emissions and to restore the malfunctioning boiler(s) to its normal or usual manner of operation.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.

(9 VAC 5-80-110 and 40 CFR 63.11225(c))

E. Notifications and Reporting

1. **Initial Notification (MACT Subpart JJJJJJ)**- The permittee must submit an Initial Notification in accordance with 63.9(b)(2) no later than September 17, 2011, for boilers ES1, ES2, ES7, ES8, ES9, ES10, and TB1 to provide the following information:
 - a. The name and address of the owner or operator;
 - b. The address (i.e. physical location) of the affected source;
 - c. An identification of the relevant standard, or other requirement, that is the basis of the notification and the source's compliance date;
 - d. A brief description of the nature, size, design, and method of operation of the source and an identification of the types of emission points within the affected source subject to the relevant standard and types of hazardous air pollutants emitted; and
 - e. A statement of whether the affected source is a major source or an area source.

The initial notification shall be submitted to:

Director, Air Protection Division
U.S. Environmental Protection Agency, Region III
1650 Arch Street, Philadelphia, PA 19103

A copy shall be submitted to:

VA DEQ, Attn Patti Johnson (8th Floor)
PO Box 1105, Richmond, VA 23218

(9 VAC 5-80-110 and 40 CFR 63.11225(a)(2))

2. **Notification of Compliance Status (MACT Subpart JJJJJJ)**- The permittee must submit to EPA Region III at the address in Condition VI.E.1 a Notification of Compliance Status for the boilers (ES1, ES2, ES7, ES8, ES9, ES10, and TB1) in accordance with 40 CFR 63.9(h) no later than 120 days after the applicable compliance date for each of the compliance requirements (Conditions VI.B.1 and 2). In addition to the information required in 40 CFR 63.9(h)(2), the notification must include the following certifications of compliance, as applicable, and signed by a responsible official:
 - a. "This facility complies with the requirements in §63.11214 to conduct an initial tune-up of the boiler."
 - b. "This facility has had an energy assessment performed according to §63.11214(c)."

A copy of the notifications shall be sent to the Director, Tidewater Regional Office.
(9 VAC 5-80-110 and 40 CFR 63.11225(a)(4))

3. **Biennial Compliance Certification Report (MACT Subpart JJJJJJ)**- The permittee must prepare biennial compliance certification reports in accordance with 40 CFR 63.11225(b), and submit upon request to EPA Region III (address in Condition VI.E.1) and Tidewater Regional Office. The first report shall be prepared by March 1, 2015, and subsequent reports shall be prepared by March 1 every other year.
(9 VAC 5-80-110 and 40 CFR 63.11225(b))

VII. Wastewater Treatment Plant and Protein Conversion Plant Process Equipment Requirements - Emission Units ES6, ES11A and B, and ES12

A. Limitations

1. **Standard for Particulate Matter-** No owner or other person shall cause or permit to be discharged into the atmosphere from any process unit any particulate emissions in excess of the limits in Table 4-4A of 9 VAC 5-40-260 (maximum allowable emission rate as a function of the process weight rate).

The total process weight rate for each individual process unit at a plant or premises shall be used for determining the maximum allowable emission rate of particulate that passes through a stack or stacks.

Unless otherwise specified, the allowable particulate mass emission rate shall be determined for individual units of equipment.

The particulate emission limit above the maximum process weight rate shall be determined by linear interpolation. For interpolation between two values on a process weight rate table the following equation should be used:

$$E = E_G - E_L \left[\frac{P - P_L}{P_G - P_L} \right] + E_L$$

where:

E = emission rate being calculated

E_L = emission rate for P_L as determined from the process weight rate table

E_G = emission rate for P_G as determined from the process weight rate table

P = process weight rate of the unit

P_L = process weight rate in the process weight rate table which is closest to but less than the process weight rate of the unit

P_G = process weight rate listed in the process weight rate table which is closest to but greater than the process weight rate of the unit

Where the nature of any process or design of any equipment is such as to permit more than one interpretation of a regulation, the interpretation that results in the minimum value for allowable emissions shall apply.

Interpolation of the data in 9 VAC 5-40-260 A (Table 4-4A) for process weight rates up to 60,000 lb/hr shall be accomplished by use of the following equation:

$$E = 4.10P^{0.67}$$

where:

E = emission rate in lb/hr

P = process weight rate in tons/hr

Interpolation and extrapolation of the data for process weight rates in excess of 60,000 lb/hr shall be accomplished by use of the following equation:

$$E = 55.0P^{0.11} - 40$$

where:

E = emission rate in lb/hr

P = process weight rate in tons/hr

(9 VAC 5-80-110, 9 VAC 5-40-260 A through D, and 9 VAC 5-40-22 C)

2. **Visible Emission Limits-** Visible emissions from the lime silo and the process equipment stacks (EP6, EP11A and 11B, and EP12) shall not exceed twenty percent (20%) opacity, except for one six-minute period in any one hour of not more than thirty percent (30%) opacity. This condition applies at all times except during periods of startup, shutdown, and malfunction. Failure to meet the requirements of this condition because of the presence of water vapor shall not be a violation of this condition.
(9 VAC 5-50-20 A.4, 9 VAC 5-50-80, and 9 VAC 5-80-110)
3. **Maintenance/ Operating Procedures-** At all times, including periods of startup, shutdown and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions.
(9 VAC 5-50-20 E and 9 VAC 5-80-110)

B. Monitoring

1. **Standard for Particulate Matter-** The permittee shall perform a determination of the process weight rate emission standard listed in Table 4-4A of 9 VAC 5-40-260 for Emission Units ES6, ES11A, 11B, and ES12 either annually (within 12 calendar months of the last determination) or each time the process weight rate changes, whichever occurs first.
(9 VAC 5-80-110 E)
2. **Visible Emissions Observations -** The permittee shall check each scrubber stack of the protein conversion plant (house air scrubber stacks EP11A and 11B, and DFS system stack EP12) at least once each calendar week during daylight hours of operations for visible emissions for at least six minutes. If visible emissions are noted from any of the stacks, maintenance shall be performed to eliminate the visible emissions. If visible emissions continue after maintenance actions, a visible emissions evaluation (VEE) shall be immediately conducted on each stack for at least six minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for either stack exceeds ten (10) percent, the VEE shall continue for one hour from initiation on each stack. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the scrubbers back to compliance. Results of observations and/or VEEs shall be recorded in the operation log. Records of observations shall include the following:
 - a. The name of the observer,
 - b. Date and time of the observation,
 - c. An indication of presence or absence of visible emissions,
 - d. Whether the emissions are representative of normal operation,
 - e. If emissions are not representative of normal operation, the cause of the abnormal emissions,
 - f. The duration of any visible emission incident, and any corrective action to eliminate visible emissions.
 - g. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).
(9 VAC 5-80-110)
3. **Visible Emissions Observations -** The permittee shall check the lime silo stack (Unit ES6, Stack EP6) during each loading event in daylight hours for visible emissions for at least six minutes. If visible emissions are noted from the stack, maintenance shall be performed on the silo and fabric filter to eliminate the visible emissions. If visible emissions continue after maintenance actions, a visible emissions evaluation (VEE) shall be immediately conducted on the stack for at least six minutes in accordance with Method 9 (40 CFR 60, Appendix A). If the VEE opacity average for either stack exceeds ten (10) percent, the VEE shall continue for one hour from initiation on the stack. If compliance is not demonstrated by this VEE, timely corrective action shall be taken to bring the unit back to compliance. Results of observations and/or VEEs shall be recorded in the operation log. Records of observations shall include the following:

- a. The name of the observer,
 - b. Date and time of the observation,
 - c. An indication of presence or absence of visible emissions,
 - d. Whether the emissions are representative of normal operation,
 - e. If emissions are not representative of normal operation, the cause of the abnormal emissions,
 - f. The duration of any visible emission incident, and any corrective action to eliminate visible emissions.
 - g. If a VEE is conducted, records shall be in accordance with Method 9 (40 CFR 60, Appendix A).
- (9 VAC 5-80-110)

C. Testing

1. The permitted facility shall be constructed so as to allow for emissions testing at any time using appropriate methods. Upon request from the Department, test ports shall be provided at the appropriate locations.
(9 VAC 5-50-30 and 9 VAC 5-80-110)
2. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9 VAC 5-80-110)

D. Recordkeeping

1. The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content of and format of such records shall be arranged with the Director, Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Annual or subsequent process weight rate emission limit determinations; and,
 - b. Records of visual emission observations, any corrective action taken, and any visible emissions evaluations (EPA Method 9) conducted.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9 VAC 5-50-50 and 9 VAC 5-80-110)

VIII. Insignificant Emission Units

The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9 VAC 5-80-720 B)	Rated Capacity (9 VAC 5-80-720 C)
ES3, ES4, and three others	Five (5) Feather Singers using LPG, 4.4 MMBTU/hr combined	9 VAC 5-80-720 B	PM/PM-10, NO _x	
N/A	Protein meal load-outs (inside building)	9 VAC 5-80-720 B.1	PM/PM-10	

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9 VAC 5-80-110.

IX. Permit Shield & Inapplicable Requirements

Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR 60 Subpart Dc	Standards of Performance for Small Industrial- Commercial-Institutional Steam generating Units	Units ES1, ES2, ES7, and ES8 were installed prior to 6/9/1989, the applicability date of the NSPS.
40 CFR 60 Subpart IIII	Standards of Performance for Stationary Compression Ignition Internal Combustion Engines (CI ICE)	This subpart applies to new CI ICE that was ordered after July 11, 2005, and manufactured after April 1, 2006; or CI ICE that was modified or reconstructed after July 11, 2005. Unit ES13 at the facility was ordered and manufactured earlier in 2005 (original permit date 3/15/05).

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.

(9 VAC 5-80-140)

X. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.

(9 VAC 5-80-110 N)

B. Permit Expiration

This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9 VAC 5-80-80, the right of the facility to operate shall be terminated upon permit expiration.

1. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
2. If an applicant submits a timely and complete application for an initial permit or renewal under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a

violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.

3. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
4. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
5. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.
(9 VAC 5-80-80 B, C, and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Recordkeeping and Reporting

1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.(9 VAC 5-80-110 F)
2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than **March 1** and **September 1** of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - (i) Exceedance of emissions limitations or operational restrictions;

- (ii) Excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - (iii) Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
- c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that “no deviations from permit requirements occurred during this semi-annual reporting period.”
- (9 VAC 5-80-110 F)

D. Annual Compliance Certification

Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:

1. The time period included in the certification. The time period to be addressed is January 1 to December 31.
2. The identification of each term or condition of the permit that is the basis of the certification.
3. The compliance status.
4. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance.
5. Consistent with subsection 9 VAC 5-80-110 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period.
6. Such other facts as the permit may require to determine the compliance status of the source.
7. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall notify the Director, Tidewater Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. [Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to General Condition IX.C.3 of this permit.

(9 VAC 5-80-110 F.2 and 9 VAC 5-80-250)

F. Failure/Malfunction Reporting

In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall, as soon as practicable but no

later than four daytime business hours after the malfunction is discovered, notify the Director, Tidewater Regional Office by facsimile transmission, telephone or telegraph of such failure or malfunction and shall within 14 days of discovery provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9 VAC 5-40-50 C and 9 VAC 5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9 VAC 5-40-40 and 9 VAC 5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Director, Tidewater Regional Office.
(9 VAC 5-20-180 C)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Modification

A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9 VAC 5-80-50, 9 VAC 5-80-1100, 9 VAC 5-80-1605, or 9 VAC 5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9 VAC 5-80-190 and 9 VAC 5-80-260)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

1. The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6)
2. Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by the Department.

(9 VAC 5-80-110 H and 9 VAC 5-80-340 C)

N. Fugitive Dust Emission Standards

During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:

1. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
2. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
3. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;
4. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
5. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

([9 VAC 5-40-90] and [9 VAC 5-50-90])

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20 E and 9 VAC 5-40-20 E)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80, Article 1.

(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

1. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
2. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
3. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
4. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2)

R. Reopening For Cause

The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.

1. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
2. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
3. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.

(9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9 VAC 5-80-150 E)

T. Transfer of Permits

1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the requirements of paragraph 2 of this condition are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the Board of the malfunction within two working days following the time when the emission limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, or any other method that allows the permittee to comply with the deadline. This notification fulfills the requirements of 9 VAC 5-80-110 F.2.b to report promptly deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirement under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof.
4. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any applicable requirement.
(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9 VAC 5-80-190 C and 9 VAC 5-80-260)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A-F)

Y. Asbestos Requirements

The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).

(9 VAC 5-60-70 and 9 VAC 5-80-110 A.1)

Z. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

AA. Changes to Permits for Emissions Trading

No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.

(9 VAC 5-80-110 I)

BB. Emissions Trading

Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:

1. All terms and conditions required under 9 VAC 5-80-110, except subsection N, shall be included to determine compliance.

2. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
3. The owner shall meet all applicable requirements including the requirements of 9 VAC 5-80-50 through 9 VAC 5-80-300.
(9 VAC 5-80-110 I)

XI. State-Only Enforceable Requirements

The following terms and conditions are not required under the federal Clean Air Act or under any of its applicable federal requirements, and are not subject to the requirements of 9 VAC 5-80-290 concerning review of proposed permits by EPA and draft permits by affected states.
(9 VAC 5-80-110 N and 9 VAC 5-80-300)

A. General

1. The facility is subject to the Emission Standards for Odor in 9 VAC 5-40-130 et seq. (Rule 4-2), and the Standards of Performance for Odorous Emissions in 9 VAC 5-50-130 et seq. (Rule 5-2).
(9 VAC 5-80-110 N and 9 VAC 5-80-300)
2. The facility is subject to the Emission Standards for Toxic Pollutants from Existing Sources in 9 VAC 5-60-200 et seq. (Rule 6-4), and the Emission Standards for Toxic Pollutants from New and Modified Sources in 9 VAC 5-60-300 et seq. (Rule 6-5),
(9 VAC 5-80-110 N and 9 VAC 5-80-300)

B. Rendering Plant (By-product Protein Conversion Plant) Operation

1. **Operating Procedures-** The permittee shall operate the rendering plant, monitor required parameters at specified frequencies, and maintain the odor control systems in accordance with the Odor Control And Monitoring Plan, and the Odor Control System Operation And Maintenance Manual, dated July 2005. The permittee shall notify DEQ within 48 hours of any changes to the plan. Changes to the plan shall be approved by the DEQ.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 2 of 1/23/06 SOP)
2. **Emission Controls-** Odor emissions from the rendering plant operation shall be controlled by proper operation and maintenance of the rendering plant and odor control systems. The rendering plant's process equipment odor control systems shall be operated at all times of rendering plant production processing operation. The rendering plant's house air odor control systems shall be operated continuously during times of production processing and sanitation operations. The permittee shall follow the odor control equipment operating procedures outlined in the approved Odor Control And Monitoring Plan, and the approved Odor Control System Operation And Maintenance Manual. The rendering plant and odor control systems shall be provided with adequate access for inspection.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 3 of 1/23/06 SOP)
3. **Monitoring Devices-** Each monitoring device shall be installed, maintained, calibrated, and operated in accordance with approved procedures, which shall include, as a minimum, the manufacturer's written requirements or recommendations. Each monitoring device shall be provided with adequate access for inspection.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 4 of 1/23/06 SOP)

4. **Exterior Doors-** All exterior doors for the rendering plant process areas shall be equipped with automatic closure devices (except for overhead roll-up doors). The permittee shall regularly monitor doors that are opened for receiving product or for make-up air to ensure that there is sufficient negative air pressure in the building so that no odors escape through the open doors. Monitoring for negative air pressure in the building shall be conducted on a weekly basis, during normal operating conditions. During the monitoring events, the permittee shall also inspect external doors and door frames to ensure they are in good condition without damage or holes.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 5 of 1/23/06 SOP)

C. Raw Material Handling

1. **Operations Requirement** – All material received at the rendering plant shall be processed or hauled away before it has decomposed to the extent that it causes objectionable odors.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 6 of 1/23/06 SOP)
2. **Operations Requirement** – Each loaded truck shall be covered with a tarp until it is unloaded. The staging and load out areas shall be paved or coated with nonporous material. The staging and receiving areas must be cleaned on a routine basis to prevent the creation of malodorous conditions. Wastewater from the cleanup shall be directed to the wastewater treatment system.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 7 of 1/23/06 SOP)
3. **Operations Requirement** – Each truck shall be washed promptly after being emptied. Wastewater from the cleanup shall be directed to the wastewater treatment system.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 8 of 1/23/06 SOP)
4. **Operations Requirement** – Truck transit areas around the rendering plant shall be paved or coated with a nonporous material to avoid malodorous conditions and shall be kept in a clean condition.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 9 of 1/23/06 SOP)
5. **Operations Requirement** – The areas outside of the rendering plant that are used for the transport, storage, and handling of raw materials shall be paved or coated with a nonporous material, and shall be provided with a slope gradient so as to encourage the runoff of stormwater, spillage, and other materials that may encourage the creation of malodorous conditions if not removed. There shall be no ponded water in these areas. The runoff and sanitation water from these areas shall be directed to the wastewater treatment system.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 10 of 1/23/06 SOP)
6. **Operations Requirement** – All raw material spillage that occurs during transit and handling at the facility shall be cleaned up promptly to prevent the creation of malodorous conditions. Wastewater from the cleanup shall be directed to the wastewater treatment system.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 11 of 1/23/06 SOP)
7. **Operating Procedures** – The permittee shall operate the raw materials handling area, monitor required parameters at specified frequencies, and maintain the odor control systems in accordance with the Odor Control And Monitoring Plan, and the Odor Control System Operation And Maintenance Manual, dated July 2005. The permittee shall notify DEQ within 48 hours of any changes to the plan. Changes to the plan shall be approved by the DEQ.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 12 of 1/23/06 SOP)

D. Wastewater Treatment Plant Operation

1. **Operating Procedures** – The permittee shall operate the wastewater treatment plant, monitor required parameters at specified frequencies, and maintain the odor control systems in accordance with the Odor Control And Monitoring Plan, and the Odor Control System Operation And Maintenance Manual, dated July 2005, with amendment page dated November 14, 2005. The permittee shall notify DEQ within 48 hours of any changes to the plan. Changes to the plan shall be approved by the DEQ.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 13 of 1/23/06 SOP)
2. **Lagoons Not In Service** – Wastewater lagoons utilized in standby or supporting roles will be monitored and odors managed as outlined in the Odor Control And Monitoring Plan, dated July 2005, with amendment page dated November 14, 2005.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 14 of 1/23/06 SOP)

E. Emergency Response Plan

1. **Emergency Odor Response Plan** – The permittee shall implement the Emergency Odor Response Plan in accordance with the Odor Control And Monitoring Plan, and the Odor Control System Operation And Maintenance Manual, dated July 2005. The permittee shall notify DEQ within 48 hours of any changes to the plan. Changes to the plan shall be approved by the DEQ.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 15 of 1/23/06 SOP)
2. **Implementation of Emergency Odor Response Plan** – In the event that the odor control equipment fails or malfunctions in such a manner that causes excess odor, the permittee shall promptly implement the Emergency Odor Response Plan.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 16 of 1/23/06 SOP)
3. **Excessive Odor Requirements** – If the DEQ investigates an odor complaint and determines that excessive odor does exist, the DEQ may require that the raw materials no longer be fed to the process causing the odor. If DEQ requires that the raw materials no longer be fed to a process, the remaining raw materials for this process and any incoming raw materials shall be diverted to another facility until the problem is corrected.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 17 of 1/23/06 SOP)

F. Facility-Wide Conditions

1. **Operating and Training Procedures** – Rendering plant emissions, raw materials handling emissions, and wastewater treatment plant emissions shall be controlled by proper operation and maintenance of the facilities and associated odor control systems. All personnel operating any portion of the odor control system shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, and a review and familiarization of the approved Odor Control And Monitoring Plan and Odor Control System Operation and Maintenance Manual, at minimum. The permittee shall maintain records of the required training including a statement of time, place, and nature of training provided. The facility shall have available good written operating procedures and a maintenance schedule for the odor control equipment and associated air pollution control equipment. These procedures shall be based on the manufacturer's written recommendations, at minimum. All records required by this condition shall be kept onsite and made available for inspection by DEQ.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 18 of 1/23/06 SOP)

2. **Notification for Complaint Investigations** – In the event that the Department of Environmental Quality notifies the permittee of an odor complaint, the permittee shall inform the DEQ Tidewater Regional Office as to the results of its complaint investigation. The permittee's initial response to the DEQ shall be provided no later than eight (8) business hours following the completion of the complaint investigation, and shall be provided by facsimile transmission, telephone, or telegraph. In addition, the permittee shall provide the DEQ Tidewater Regional Office with a complete written report within five (5) business days after the completion of the investigation. The written report shall address each applicable line item of the Accomac Odor Complaint Form. The Accomac Odor Complaint Form shall be the form that is provided in the approved Odor Control and Monitoring Plan for the facility.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 19 of 1/23/06 SOP)

G. Records

1. **On Site Records** - The permittee shall maintain records of emission data and operating parameters as necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Tidewater Regional Office. These records shall include, but are not limited to:
 - a. Records and monitoring results as required by the approved Odor Control And Monitoring Plan, and the Odor Control System Operation And Maintenance Manual, dated July 2005.
 - b. Records of scheduled and unscheduled maintenance.
 - c. Records of operator training.

These records shall be available for inspection by the DEQ and shall be current for the most recent five years.
(9 VAC 5-80-110 N, 9 VAC 5-80-300 and Condition 20 of 1/23/06 SOP)